

High Energy Laser Technology

An OSD Perspective

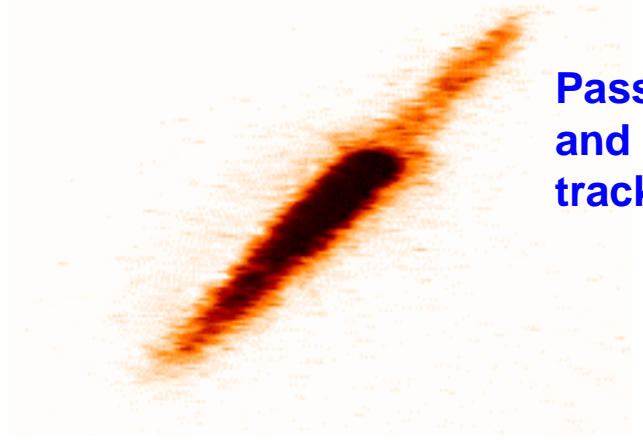
Jim F. Riker
ODUSD(S&T)/WS

HEL Seminar
10 December 1999
Washington, DC

High Energy Lasers

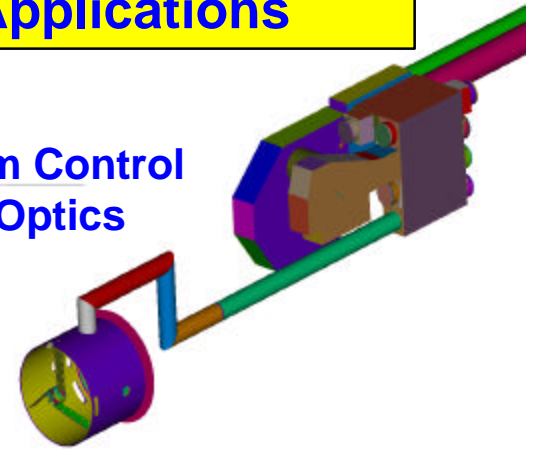
The Good News

Technology Ready for Weapon System Applications

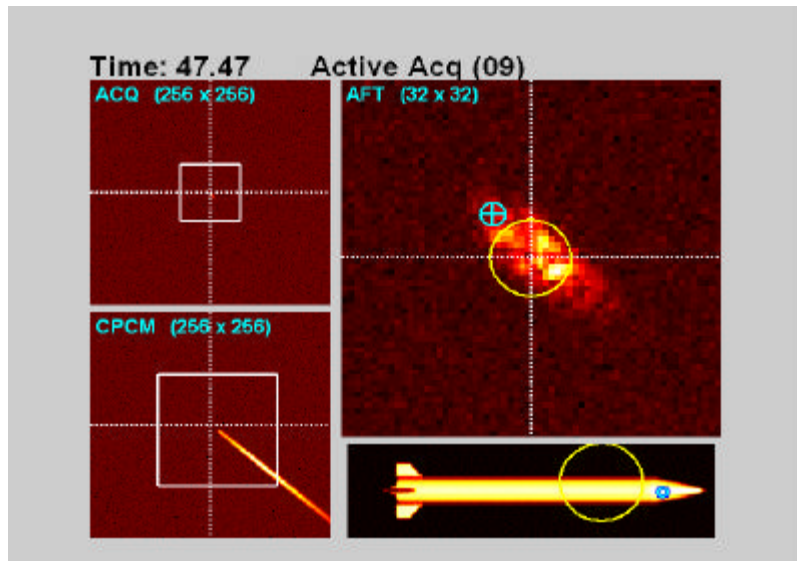


Passive plume
and active laser
tracking

Beam Control
and Optics



Fire Control
Technology
and Modeling



Atmospheric
Compensation
Technology

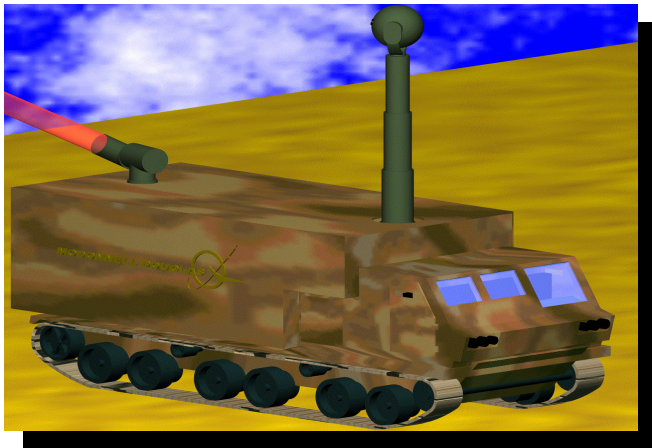
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High Energy Lasers

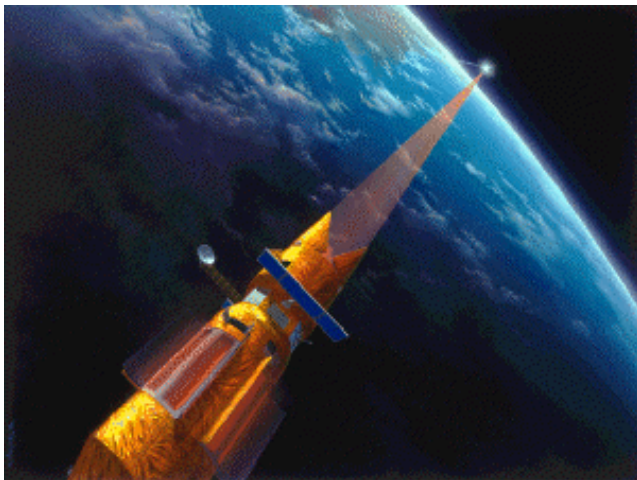
The Good News Continues

High Level of interest, visibility and momentum



Tactical High
Energy Laser
(THEL): DF
device

Air Borne
Laser (ABL):
COIL device



Space Based
Laser (SBL):
HF device

Airborne
Tactical Laser
(ATL): COIL



Tactical Aircraft

- Forward Positioned Towards Threat
- Screen-Mode Ops
 - Distributed Surveillance
 - Preferred Aspect Look & Shoot
- Med-to-Low Altitude Environment

HEL Executive Review Panel (HELERP)

Terms of Reference

- Develop a DoD HEL Master Plan and Road Map
- Assess State of Industrial Supplier Base and Develop a Strategy to Ensure Availability of Affordable Critical Technologies and Manufacturing Capabilities
- Define a Viable HEL Management and Oversight Structure within DoD
- Define Funding Requirements
- Report Completed in March 2000